



Since commencing operations in March 2002,
Eurockot Launch Services GmbH has performed a
dozen launches for a variety of institutional and
commercial satellite operators in Europe, Asia and
North America from Plesetsk Cosmodrome in a
market that is fiercely competitive. Our order backlog
confirms the confidence our customers place in our
services and strengthens our position as one of the
leading providers of reliable, cost-effective and customer service-oriented launches.

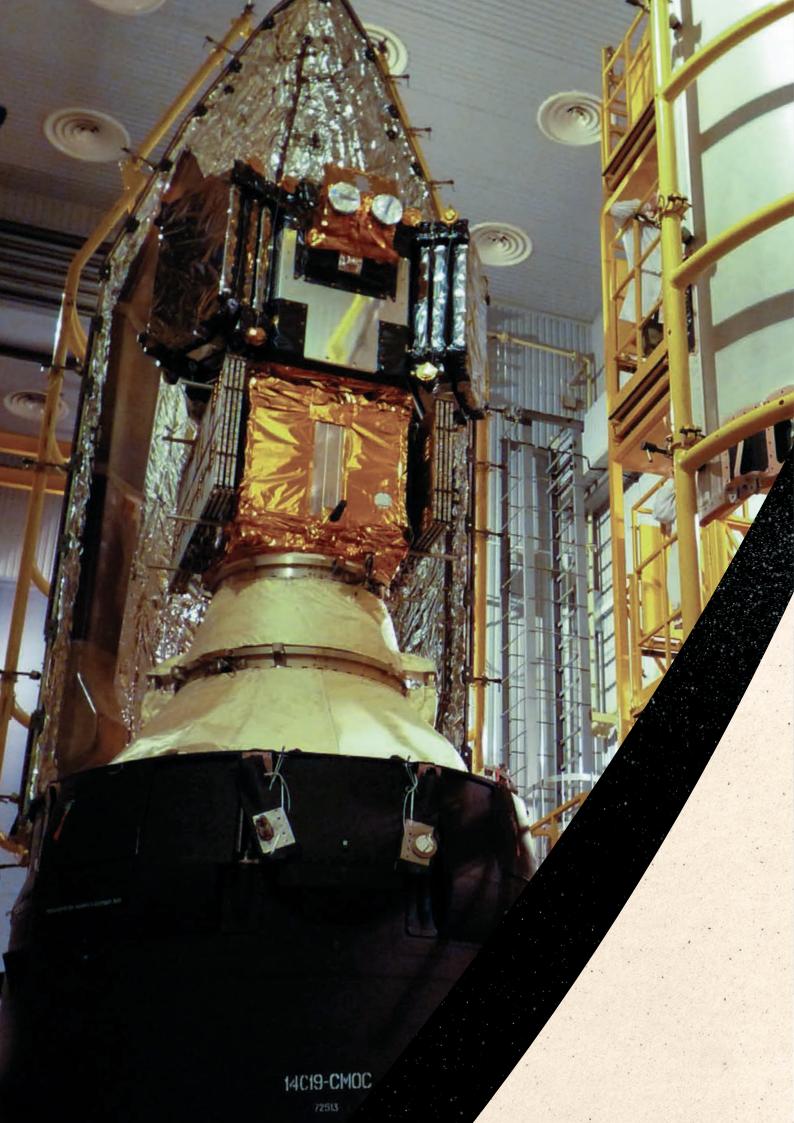
We are extremely proud of the fact that our customers place repeat orders with us, as in the case of the European Space Agency and the Institute for Unmanned Space Experiment Free Flyer of Japan, thereby strengthening our position as one of the leading providers of reliable and cost-effective launches of climate research, scientific, experimental and communication satellites into polar and sun-synchronous low earth orbits.

Eurockot uses the proven Rockot-KM launcher with a maximum payload of almost two tons for high precision injections of satellites; modern, dedicated satellite preparation, launch, mission control and customer facilities at Plesetsk Cosmodrome based on the investment of Astrium (now integrated into ArianeGroup) and offers comprehensive logistical and customer services in Russia as part of all-inclusive launch contracts with its customers. Since 2005, the launch record of Rockot is also being augmented through its use for Russian government launches.

As the joint venture of ArianeGroup (51%) and Khrunichev Space Center (49%), we count leading space agencies and institutions amongst its customers - and are proud of serving them!

Peter Freeborn
Chief Executive Officer







namely proven launch technology and attractive cost in Russia on the one hand and western business management, investment and customer orientation on the other. The combination of these assets and capabilities make Eurockot a uniquely dependable partner in the small LEO launch business.

Eurockot is the customer's contractual partner, thus having the full programme management responsibility up to the launch and post launch activities. From the customer's point of view, Eurockot adds value by being his single point of contact and guaranteeing launch services of international

## Committed To Our Customers

Eurockot has consistently scored high marks with its programme managemen qualities. For every mission, Eurockot will provide a dedicated mission manager with support team to achieve the necessary programme milestones. This includes interface control management, mission design and mission analyses, post launch evaluation as well as on-site management of the pre-launch operations at Plesetsk Cosmodrome including logistic support, campaign preparation and organisation. Eurockot's Russian partners Khrunichev Space Center and the Space Forces have an unrivalled experience in the construction and operation of launch vehicles and have proven their capabilities not only during many Proton launches, but also during all Rockot launches.

Eurockot prides itself with a wide range of services associated with a launch contract. During launch site surveys and mission campaigns Eurockot will provide the logistical support to the customer within Russia, ranging from air and ground transport to hotel accommodation and the welfare of customer personnel. By way of example, Eurockot can arrange and facilitate ancillary services including spacecraft fuelling and will also assist the customer in obtaining re-launch insurance for his mission.

Eurockot also routinely conducts media work in Russia involving the international pressand broadcast corporations and will for instance support customers in live transmissions of launches.



## SIGNED WITH EUROCKOT

Past, Present and Future Missions using the Rockot Launch System.







The flight heritage of the SS-19 comprises more than 150 flights in the past 20 years. Rockot launches began in the early nineties when three Rockot-K launch vehicles successfully deployed Russian satellites. Eurockot has performed 11 commercial missions for international customers since May 2000 with the Rockot-KM.

To ensure the correct functioning of all SS-19 components an extensive ground qualification test program is employed. A special revalidation procedure was developed to ensure the proper functioning of Rockot's first and second stages. This includes a yearly validation flight of an SS-19 and detailed mechanical and electrical tests to verify the booster stages are flight-worthy.

Typically, Rockot will launch a payload mass of up to two tons into a low earth orbit from Eurockot's facilities at Plesetsk Cosmodrome. This makes Rockot the natural choice for launches into such high inclination, polar and sun-synchronous orbits.

## ROCKOT – Europe's Small Launcher

The Breeze-KM upper stage makes Rockot a unique small launch vehicle by comparison. It is re-ignitable and highly manoeuvrable and thus allows spacecraft to be released precisely into their required positions. Breeze-KM is a version of the Breeze-M upper stage also employed in the heavier Proton launch vehicle produced by Khrunichev. The full potential of Breeze-KM was successfully demonstrated during Eurockot's Multiple Orbit Mission in June 2003 when a total of eight satellites was released into elliptical and sun-synchronous orbits.

Eurockot employs payload adapter and separation systems of Russian as well as West European origin. Previous missions demonstrated the successful use of Khrunichev as well as Airbus DS CASA designs which are either available off-the-shelf or as customized designs. Eurockot's coup de grace was the successful orbiting of the three Swarm satellites for the European Space Agency in November 2013.

Next to classic LEO missions, Rockot is also able to perform Earth escape and planetary missions using an additional propulsion module. An incremental product improvement of the Breeze-KM upper stage will result in a gradual increase of payload masses into classical low earth orbits. Rockot will remain available for commercial launches well into the next decade. It is Eurockot's goal to maintain its high standards by offering high quality, cost-effective and customer service-oriented launch services to the market.







